



Gulf of Mexico Harmful Algal Bloom Bulletin

6 October 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 3, 2005

Conditions: Harmful algal blooms have been identified from Pinellas to northern Collier, Dixie to Levy, and Okaloosa to Franklin Counties. The following patchy impacts are possible through Monday, with greater possibility of impacts on Friday and Saturday: none to low at Pinellas, Charlotte, Lee and northern Collier Counties. The following patchy impacts are possible at Manatee and Sarasota; none to low today, Thursday, Sunday and Monday, and low to moderate Friday and Saturday. The following patchy impacts are possible through Monday: none to low at Okaloosa, Walton, Bay, Dixie and Levy Counties. The following patchy impacts are possible at Gulf and Franklin; none to low through Saturday and low to moderate Sunday and Monday. Dead fish have been reported over the past few days in Santa Rosa, Okaloosa, Gulf, Lee and Collier Counties. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

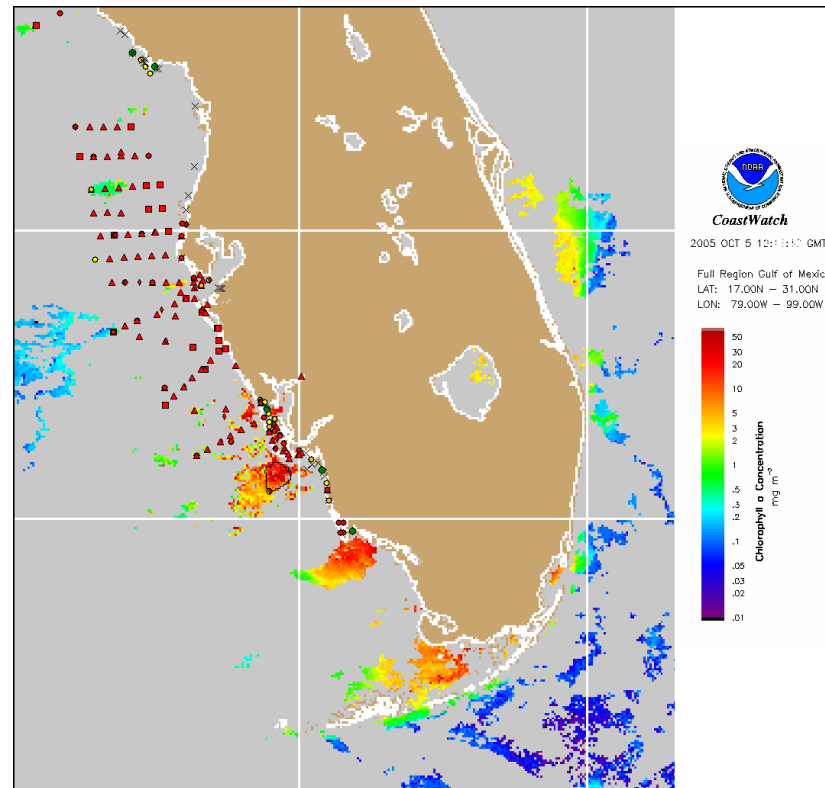
Analysis: Cloudy imagery limits analysis of bloom. Imagery indicates persistence of elevated chlorophyll band nearshore. Elevated chlorophyll remains offshore and within Charlotte Harbor area (17-60 $\mu\text{g/l}$). However, sampling indicates none to low *K. brevis* concentrations (FWRI; Oct 4) in the bays or onshore. Reports of discolored water are likely.

Wind transport model indicated northward movement (8-15 km) since the Oct. 3 bulletin. Moderate southerlies through Friday may increase northerly and onshore transport. Onshore winds on Saturday may increase reports of dead fish and respiratory impacts. Reduced impacts are possible on Sunday and Monday.

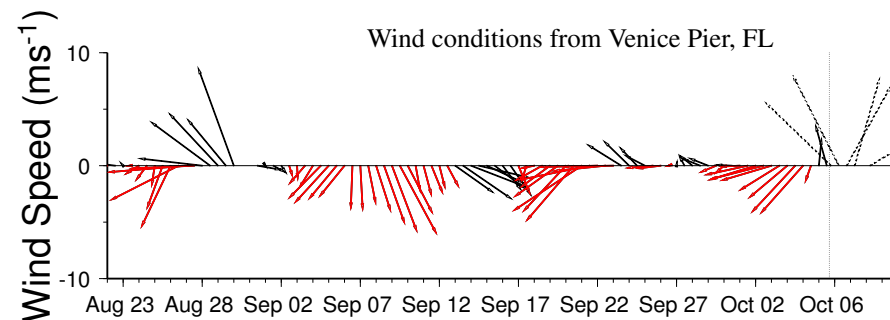
~Fenstermacher and Fisher

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1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
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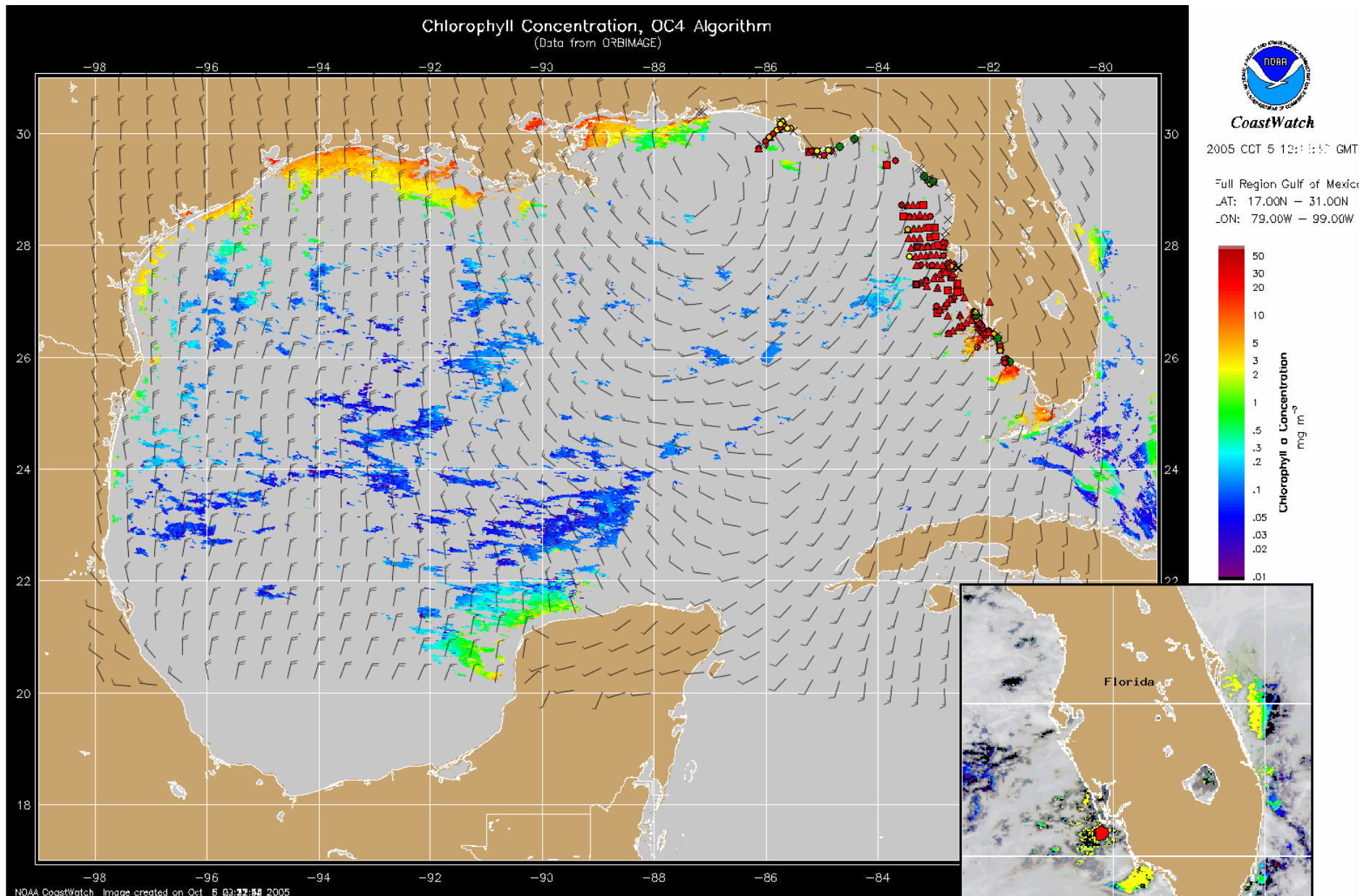


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from September 30, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

W. Central & SW Florida: Strong southeasterly winds today clocking around to westerly winds on Saturday (10-15 knots; 5-8 m/s). Northerly winds on Sunday followed by northeasterlies on Monday (5-10 knots; 3-5 m/s).



Chlorophyll concentration from satellite and forecast winds for October 7, 2005 12Z with cell concentration sampling data from September 30, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

